

# FLS-300 light source

## NETWORK TESTING OPTICAL

- The FLS-300 light source is part of EXFO's line of handheld units, which includes the PPM1 power meter and the FOT-300 optical loss test set.



## KEY FEATURES

Multifunctional light source: dual wavelength singlemode (1310/1550 nm), or four wavelengths (two multimode, and two singlemode) on two ports

Power autonomy of 120 hours

Highest output power in the industry

Three-year recommended calibration interval for reduced cost of ownership

Ergonomic, eye-catching handheld package

## AUTO-WAVELENGTH RECOGNITION

The FLS-300 light source can transmit with a wavelength-identification digital encrypted protocol, so that any compatible unit—the PPM1 power meter and the FOT-300 optical loss test set—can automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

## DISTANT REFERENCING

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

### SPECIFICATIONS<sup>a, b</sup>

| Model                                    | 23BL                   | 12D                     |
|------------------------------------------|------------------------|-------------------------|
| Central wavelength (nm)                  | 1310 ± 20<br>1550 ± 20 | 850 ± 25<br>1300 50/-20 |
| Spectral width <sup>c</sup> (nm)         | ≤5                     | 50/135                  |
| Output power (dBm)                       | ≥1/≥1                  | ≥-20/≥-20 (62.5/125 μm) |
| Power stability <sup>d</sup> (dB)        | ±0.10                  | ±0.10                   |
| Battery life <sup>e</sup> (hours)        | 120                    | 120                     |
| Enables automatic wavelength recognition | Yes                    | Yes                     |
| Tone generation                          | 270 Hz, 1 kHz, 2 kHz   | 270 Hz, 1 kHz, 2 kHz    |
| Recommended calibration interval (years) | 3                      | 3                       |
| Warranty (year)                          | 1                      | 1                       |

### GENERAL SPECIFICATIONS

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Size (H × W × D)  | 185 mm × 100 mm × 55 mm (7 ¼ in × 4 in × 2 1/8 in)                                        |
| Weight            | 0.4 kg (0.9 lb)                                                                           |
| Temperature       | Operating -10 °C to 50 °C (14 °F to 122 °F)<br>Storage -40 °C to 70 °C (-40 °F to 158 °F) |
| Relative humidity | 0% to 95% non-condensing                                                                  |
| Power supply      | 3 AA alkaline batteries                                                                   |

### LASER SAFETY



### STANDARD ACCESSORIES

User guide, certificate of calibration, instrument stickers in six languages, AC adapter, three AA batteries, wrist strap.

a. Guaranteed unless otherwise specified.

b. All specifications valid at 23 °C ± 1 °C, with an FC connector.

c. Root mean square (RMS) for lasers and -3 dB width for LEDs; typical values for LEDs.

d. After 15 minutes warmup; expressed as ± half the difference between the maximum and minimum values measured during the period, with an APC connector on the power meter.

e. Typical autonomy in Auto mode.

### ORDERING INFORMATION

| FLS-300-XX-XX                                                                  |                               |                                            |
|--------------------------------------------------------------------------------|-------------------------------|--------------------------------------------|
| <b>Model</b>                                                                   | <b>Connector</b>              |                                            |
| FLS-300-23BL = 1310/1550 nm laser 9/125 μm <sup>a</sup>                        | EI-EUI-28 = UPC/DIN 47256     | EA-EUI-28 = APC/DIN 47256 <sup>a</sup>     |
| FLS-300-12D-23BL = 850/1300 nm LED 62.5/125 μm,<br>1310/1550 nm laser 9/125 μm | EI-EUI-76 = UPC/HMS-10/AG     | EA-EUI-89 = APC/FC narrow key <sup>a</sup> |
|                                                                                | EI-EUI-89 = UPC/FC narrow key | EA-EUI-91 = APC/SC                         |
|                                                                                | EI-EUI-90 = UPC/ST            | EA-EUI-95 = APC/E-2000 <sup>a</sup>        |
|                                                                                | EI-EUI-91 = UPC/SC            | EA-EUI-98 = APC/LC                         |
|                                                                                | EI-EUI-95 = UPC/E-2000        |                                            |
|                                                                                | EI-EUI-98 = UPC/LC            |                                            |
| Example: FLS-300-23BL-EI-EUI-89                                                |                               |                                            |

a. EA-EUI only available on model 23BL.

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